



University of Maryland University College Graduate School of Management & Technology

Master of Science in Information Technology

Software Engineering

(For students who started their program prior to fall 2007)

Please fill in the study plan, indicating course as completed.

Student Name \_\_\_\_\_

Empl ID \_\_\_\_\_ Date \_\_\_\_\_

**KEY:**

- Courses highlighted in **bold blue** indicate core courses included in the fall 2007 curriculum for the **Master of Science in Information Technology** (5 core courses needed).
- Courses highlighted in *italicized pink* indicate specialization courses included in the fall 2007 curriculum for the **Software Engineering specialization** (7 specialization courses needed).
- Additional courses may be needed to complete the fall 2007 curriculum. See the catalog for additional information.

If Following Curriculum Prior to Fall 2007				
Prior to Fall 2007		Fall 2007 Course # and Title		
Required core courses				
Course #	Course Title	Course #	Course Title	Semester Completed
MSIT 610	Foundations of Information Technology	<b>ITEC 610</b>	IT Foundations	
MSIT 620	Computer Concepts	<b>ITEC 620</b>	IT Infrastructure	
MSIT 630	Concepts in Software-Intensive Systems	<i>(SWEN 645)</i>	Systems and Software Standards and Requirements	
MSIT 640	Data Communications and Networks	TLMN 623	Telecommunications Networks	
MSIT 650	Systems Engineering	<b>ITEC 630</b>	Analysis, Modeling, and Design	
MSIT 660	Internet Technologies	INFA 620	Network and Internet	

				Security	
<b>Electives : Choose five</b>					
<b>Computer Systems Group</b>					
CSMN 614	Data Structures and Algorithms	BIFS 614	Data Structures and Algorithms		
CSMN 616	Parallel and Distributed Systems	ITEC 620	IT Infrastructures		
CSMN 617	Principles of Programming Languages	(SWEN 645)	Systems and Software Standards and Requirements		
CSMN 618	Knowledge-Based Systems	ISAS 640	Decision Support Systems and Expert Systems		
<b>Database Group</b>					
CSMN 661	Relational Database Systems	DBST 651	Relational Database Systems		
CSMN 662	Advanced Relational/Object-Relational Database Systems	DBST 652	Advanced Relational/Object-Relational Database Systems		
CSMN 663	Distributed Database Management Systems	DBST 663	Distributed Database Management Systems		
CSMN 664	Object-oriented Database Systems	NA			
CSMN 665	Data Warehouse Technologies	DBST 665	Data Warehouse Technologies		
CSMN 666	Database Systems Administration	DBST 670	Database Systems Administration		
CSMN 667	Data Mining	DBST 667	Data Mining		
CSMN 668	Database Security	DBST 668	Database Security		
<b>Electronic Commerce Group</b>					

ECOM 610	Introduction to E-Commerce	EBUS 610	Introduction to E-Business	
ECOM 620	E-Marketing	EBUS 620	E-Marketing	
ECOM 670	Social ,Legal, and Regulatory Issues	EBUS 630	Social, Legal, and Regulatory Issues	
<b>Homeland Security Group</b>				
ITSM 620	Concepts in Homeland Security	HSMN 610	Concepts in Homeland Security	
ITSM 622	Seminar in Homeland Security Management	HSMN 670	Seminar in Homeland Security Management	
And three of the following:				
CSMN 655	Information Risk Assessment and Security Management	INFA 610	Computer Security, Software Assistance, Hardware Assistance, and Security Management	
BIOT 681	Bioterrorism and Biosecurity	BSBD 641	Biosecurity and Bioterrorism	
ENER 603	Energy Infrastructure	ENER 603	Energy Infrastructure	
ITSM 624	Physical Security	HSMN 620	Physical Security	
ITSM 626	Business Continuity: Disaster Recovery Planning and Response	HSMN 630	Business Continuity: Disaster Recovery Planning and Response	
<b>Information Assurance Group</b>				
CSMN 655	Information Risk Assessment and Security Management	INFA 610	Computer Security, Software Assurance, Hardware Assurance, and Security Management	

CSMN 681	Cryptology and Data Protection	INFA 640	Cryptology and Data Protection	
CSMN 683	Intrusion Detection, Incident Response, and Computer Forensics	INFA 630	Intrusion Detection and Intrusion Prevention	
TLMN 672	Network and Internet Security	INFA 620	Network and Internet Security	
CSMN 685	Security Policy, Ethics, and the Legal Environment	INFA 660	Security Policy, Ethics, and the Legal Environment	
ITSM 620	Concepts in Homeland Security	HSMN 610	Concepts in Homeland Security	
<b>Information Technology Management Group</b>				
TMAN 610	Economics and Financial Analysis	<b>TMAN 625</b>	Economics and Financial Analysis for Technology Managers	
TMAN 614	Strategic Management of Technology and Innovation	TMAN 614	Strategic Management of Technology and Innovation	
TMAN 632	Organizational Performance Management	TMAN 632	Organizational Performance Management	
TMAN 633	Managing People in Technology-Based Organizations	TMAN 633	Managing People in Technology-Based Organizations	
<b>Project Management Group</b>				
PMAN 634	Program and Project Management	<b>ITEC 640</b>	Information Technology Project Management	
PMAN 635	Techniques of Scheduling and Resource Allocation	PMAN 670	Advanced Project Methods	

PMAN 636	Legal Aspects of Contracting	PCMS 627	Legal Aspects of Contracting	
PMAN 637	Risk Management: Tools and Techniques	PMAN 637	Risk Management: Tools and Techniques	
PMAN 638	Communication, Negotiation, and Conflict Resolution	PMAN 638	Communication, Negotiation, and Conflict Resolution	
<b>Software Systems Group</b>				
MSWE 645	Systems and Software Standards and Requirements	<i>SWEN 645</i>	Systems and Software Standards and Requirements	
MSWE 646	Software Design and Implementation	<i>SWEN 646</i>	Software Design and Implementation	
MSWE 647	Software Verification and Validation	<i>SWEN 647</i>	Software Verification and Validation	
MSWE 648	Software Maintenance	<i>SWEN 648</i>	Software Maintenance	
<b>Special Topics Group</b>				
ITSM 637	IT Acquisitions Management	IMAT 637	IT Acquisitions	
CSMN 639	Multimedia and the Internet	IMAT 639	Internet Multimedia Applications	
COMM 600	Academic Writing for Graduate Students	COMM 600	Academic Writing for Graduate Students	
<b>Telecommunications Group</b>				
TLMN 620	Local Area Networking Systems	<i>ITEC 620</i>	IT Infrastructure	
TLMN 625	Wide Area Network Systems	TLMN 623	Telecommunications Networks	
TLMN 630	Satellite Communications Systems	TLMN 630	Satellite Communications Systems	
TLMN 641	Network Management and Design	TLMN 641	Network Management	

			and Design	
TLMN 645	Wireless Telecommunications Systems	TLMN 641	Network Management and Design	
TLMN 665	Wireless Security	TLMN 670	Telecommunications Capstone	
<b>Capstone: You must complete 27 hours of graduate coursework before enrolling in the capstone course</b>				
ITSM 670	Information Technology Integration and Applications	IMAT 670	Contemporary Topics in Informatics	

**NOTE:** For the **MS in Information Technology – Software Engineering specialization** fall 2007 curriculum, the following specialization courses are needed in addition to those highlighted above:

		<i>SWEN 603</i>	Systems Engineering	
		<i>SWEN 640</i>	Software Project Management	
		<i>SWEN 670</i>	Software Engineering Project	